

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		
SERIAL NUMBER	FILING DATE	CLEVENGER		L 98P7476US		
09/052,688	03/31/98	San San V Sen C S a Canal C		EXAMINER		
		MM21/1002				
SIEMENS CORPORATION INTELLECTUAL PROPERTY 186 WOOD AVENUE SOUTH ISELIN NJ 08830		DEPARTMENT		GUAY.J	PAPER NUMBER	
				ART UNIT	4	
				2814		
				DATE MAILED:	10/02/98	
This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS This action is made final.						
This application has been examined. Responsive to communication field of this application has been examined. Responsive to communication field of this application has a state of this letter. A shortened statutory period for response to this action is set to expire THREE (3) month(s), days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133						
Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION: 1. Notice of References Cited by Examiner, PTO-892. 2. Notice re Patent Drawing, PTO-948. 4. Notice of informal Patent Application, Form PTO-152.						
The Article of Art Cited by Applicant, PTO-1449.						
5. Information on How to Effect Drawing Changes, PTO-1474. 6. Substitute P10-948						
Part II SUMMARY OF AC	CTION				is pending in the application.	
1. 🛛 Claim(s)						
Of the above, claim(s) is withdrawn from consideration. has been canceled.						
2. Claim(s)					is allowed.	
3. Claim(s)		1			is rejected.	
4. 🛭 Claim(s)		1			is objected to.	
5. Claim(s)	5. Claim(s)is objected to. 6. Claim(s)are subject to restriction or election requirement.					
 Claim(s)						
7. A This application	has been filed with in	conse to this Office action.				
 Formal drawing(s) are required in response to this Office action. Under 37 C.F.R. 1.84 these drawings The corrected or substitute drawings have been received on						
10. The proposed additional or substitute sheet(s) of drawings, filed on has (nave) been approved by the						
has been ☐ approved. ☐ disapproved (See explanation).						
11. The proposed drawing correction(s), filed on						
of the state application annears to be in condition for allowance except for formal matters, prosecution as to the matter state of the matter stat						
accordance wit	accordance with the practice under Ex parte Quayle, 1933 C.B. 11, 433 G.B. 11, 433 G.B.					
14. 🗌 Other						

Serial Number: 09/052688

Art Unit: 2814

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

Claim 1 is rejected under 35 U.S.C. § 103(a) as obvious over the present admissions of prior art taken with Japanese Kokai 4-267359 to Sumi.

Sumi teaches using amorphous titanium nitride coatings to line contact vias which are subsequently filled with aluminum in order to prevent diffusion of aluminum or silicon into the underlying substrate. Use of so formed amorphous liners in disclosed conventional damascene structures would have been obvious for this reason.

Any inquiry concerning this communication should be directed to John Guay at telephone number (703) 305-3507.

yonn Guay / Patent Examiner Art Unit 2814